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GLINKIN, M. I.

Ul D/Medicine - Literature
Sacitation

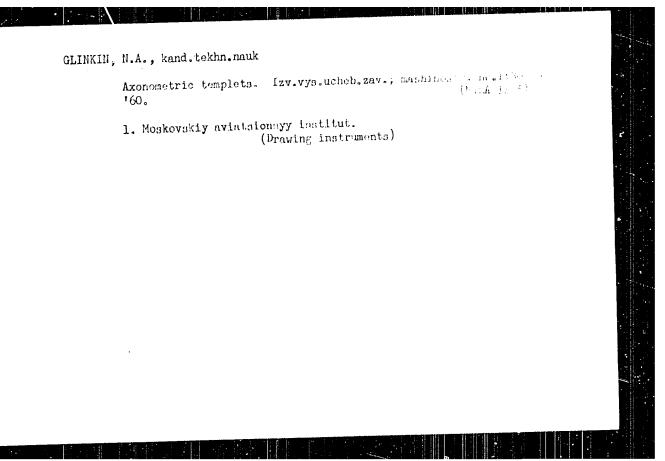
Lug 49

"Sanitation Service in the Days of the Intriotic War: Vol. IX, Gunshot Aneurisms," Hedgiz, 1948, 2 p

"Khirurgiya" No 8

Volume contains the works of collavorators in two specialized hospitals of the Ural Mil Dist on clinical problems and treatment of transatic ameurisms. Contributors are: L. M. Ratner, L. M. Protalinskaya, M. K. Glinkin, L. D. Korabel'nikov, and A. I. Bogatov.

PA 1/50267



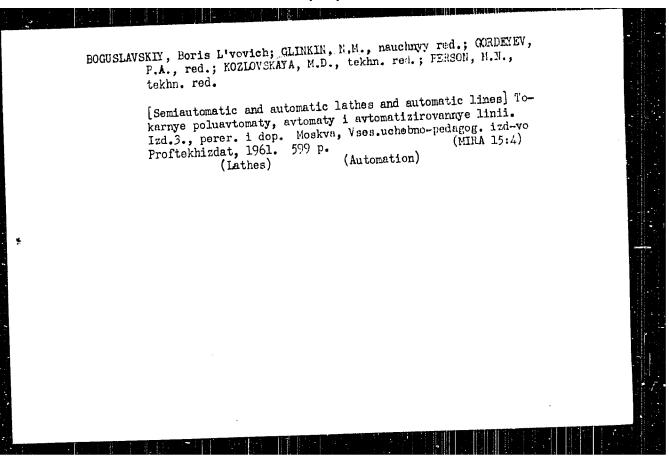
YEGOROV, M.Ye., zasluzhennyy deystel' nauki i tekhniki, doktor tekhn.
nauk, prof.; GLINKIN, M.M., dotsent, red.; KUNIH, P.A., red.;
CHEMNOVA, Z.I., tekhn.red.; SOKOLOVA, T.F., tekhn.red.

[Fundamentals of designing machinery plants] Osnovy proektirovaniia mashinostroitel'nykh zavodov. Izd.5., perer. Moskva.

Gos.nnuchno-tekhn.izd-vo mashinostroit.lit-ry, 1959. 480 p.

(Machinery industry)

(Machinery industry)

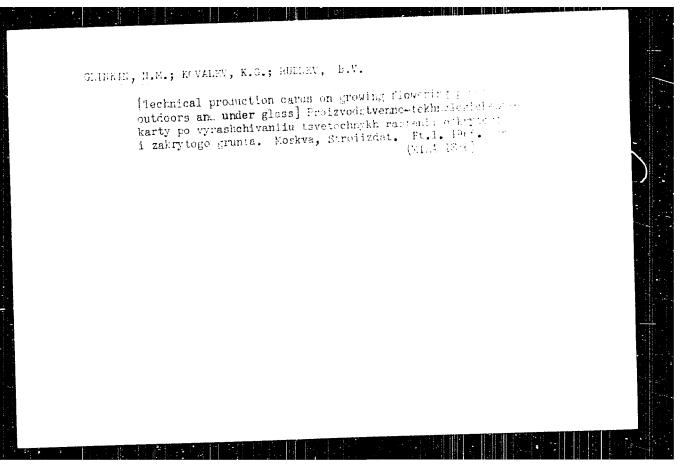


LITVAK, Lev Kisilevich; GLINKIN, N.M., nauchnyy red.; CHI YUN-SEUY
[Ch'ih Yung-shui], red.; PEREDERIY, S.F., tekhn. red.

[Modern methods for drop forging]Sovremennye metody goriachei
shtampovki. Moskva, Proftekhizdat, 1963. 193 p.

(MIRA 16:4)

(Forging)



ROUDEL, N.M., noto, komo, tekhn. nauk; otv. red., All Hossikk .

A.F.; kand, tekhn.mank, doto, red.; HELYME, Kilo; web; kand, tekhn. nauk, red.; MINGLAYEVICH; V.Ya., iota,, red. GLIKKIN, F.F., red.

[Research on construction problems] Issledo zunita po voproces streitel'stva. Minsk Izd-vo Mava typshago, prednego spetsial'nogo i professional'nogo obrantvantia BSSA, 1962. 165 p. (MIFA 18:4)

1. Minck. belorupskiy politikanicheckiy institut.

TSITOVICH, Igor' Sergeyevich; VAVULO, Vasiliy Andreyevich; KHVAL',
Boris Nikolayevich; GLINKIN, P.P., red.; MCRGUNOVA, G.M.,
tekhn. red.

[Gear wheels of motor vehicles and tractors; design] Zubchatye kolesa avtomobilei i traktorov; proektirovanie i raschet.
Minsk, Izd-vo M-va vysshego, srednego spetsial'nogo i professional'nogo obrazovaniia RSSR, 1962. 394 p.

(MRRA 16:4)

(Motor vehicles--Transmission devices) (Gearing)

EINKIN, A. .

Vlimaie for y heatony hrela n. o m ac. dlurad berbic harval pristiki. Loskva, 1960. 20 p., balles, diagrs. (1994. harp, no 191)

Bibliography: p. 19.

Title tra: Effect of wing tip shape on acredynatic characteristics of the wing.

potett APILIOS no.h7h

3: Aeronautical Sciences and Aviation in the Soviet Union, Library of Compress, 1955

CINA Mana, M.I.

Category: USSR/Analytical Chemistry - Analysis of inorganic

G-2

substances.

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30997

Author : Sinyakova S. I., Glinkina M. I.

: not given Inst

Title : Polarographic Catalytic Molybdenum Current and Its Utilization

for Determination of Microgram-Amounts of Molybdemum.

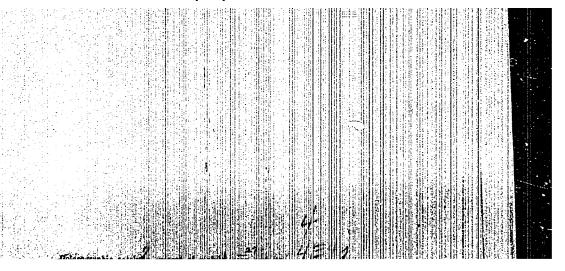
Orig Pub: Zh. analit. khimii, 1956, 11, No 5, 544-552

Abstract: Study of the catalytic wave (CW) of Mc with a background of 1 M HC104 - 0.75 M H2S04 and 1 M NaC104 - 0.75 M H2S04. It was ascertained that in these media the Mo current does not depend on mercury-column pressure and H<sub>2</sub>SO<sub>4</sub> concentration, but depends on concentration of HClO<sub>4</sub> (or NaClO<sub>4</sub>) and is due to exidation of Mo(4+), which is formed as a result of electrode reduction of Mo(5+) by the perchloric acid. The possibility is shown of determining the Mo on the basis of the CW, at concentrations up to 1 · 10 k M, with a relative error not exceeding + 10%.

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ABSTRACT:	In spite of numerous invistintions (held 1 - 1) the mechanis, of the electrons relations of the cliff has a mode not get emplained. Above all there are up to mean mode in the race concerning the nature of the isse of a lightnum in the race of different pil-values them, authors are of the pirion that the molybdate ion (m. 0, m.) exists only in the class of pil-values of meaning and the concerning the result in solutions which are read to meaning the result that the role of pil-values of meaning the result in the role of pil-values.				
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75 13 2 5/27

Use of Complexones in Polarography. Communication II. The Behavior of Molybdenum on a Dropping Mercury Electrode in Complexones

ASSOCIATION: Institut geokhimii i aniliticheskev khimii ir. 7. I.

Vernadskogo AN SSSR, Moskya

(Moscow Institute of Geochemistry and Analytical Chemistry

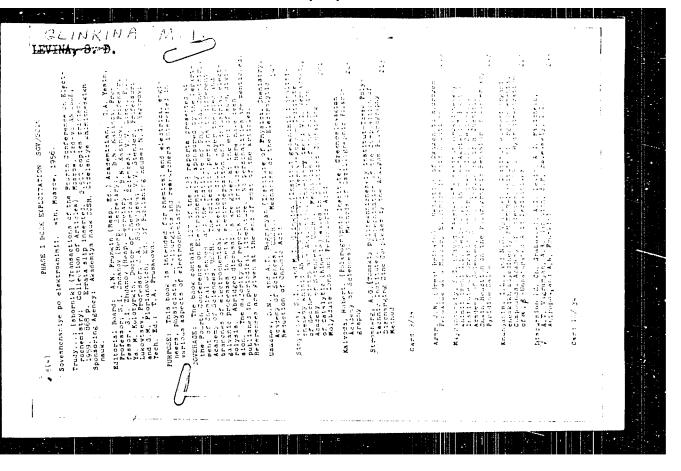
imeni V. I. Vernadskiy, Ad HSSR)

SUBMITTED: May 27, 1956

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S/081/61/000/019/018/065 B101/B147

AUTHORS:

Studenikova, Z. V., Glinkina, M. I., Kornilova, K. I.

TITLE:

Geochemistry of tungaten and molybdenum

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 19, 1961, 82, abstract 19G11 (Sb. "Geokhim. tsikly". M., Gosgeoltekhizdat, 1960, 178-186)

TEXT: The authors present extensive material of facts established by them as well as published data characterizing the Mo and W distribution in magmatic rocks. The Mo: W ratio varies between 0.2 and 0.5 in different types of rock. A study of the distribution of these elements in genetically connected series of intrusive rocks showed an accumulation of W in the later border differentiation products (alaskites), with monotonic Mo content and a low increase of its content in basic rocks. Mo separates from W at the stage of formation of quartz diorites (granodiorites). Analytical data of the monomineral fractions show that the principal mass of the two elements is bound to feldspars and quartz, with Mo primerily accumulating in plagicclase. The localization of Mo and W in leucocratic

Card 1/2

Geochemistry of tungsten...

3/081/61/000/019/018/055 3101/B147

[#] [MALEN] # [Barrion | [#] [#] [#]

minerals is explained by peculiarities of the electronic shells requiring a 6-coordination in the form of a trigonal prism (which can be observed on plagioclase). This leads to an isomorphous substitution of Ca<sup>2+</sup>. In the autometamorphism of granites, the substitution of plagicclase by muscovite is due to de-anorthositation processes. Ca and W are set free and form small scheelite deposits, primarily in the anticlinal sections of granite massifs. W simultaneously accumulates at the pegmatite stage, and its content in quartz veins decreases. The Mo content in products of postmagmatic processes changes slightly, and increases inconsiderably in the quartz veins. [Abstracter's note: Complete translation.]

Card 2/2

STUDENTINOVA, Z. V.: GLINKINA, M. I.: KORNILOVA, K. I.

"Contribution to the geochemistry of tempoten and molytodenam"

Paper submitted at the International Geological Congress XXI Session - 1,60 (Reports of Soviet Geologists) Problem No. 1, 15-2- Aug. 61

GLINKINA, V.N.; LAZARSHEO, B.R., doktor tekhn.mank, neuchnyy red.; KOVAL'SKAYA, I.F., tekhn.red.

[Electric spark machining of conducting materials; bibliography. 1955-1959] Elektroiskrovaia obrabotka tokoprovediashchikh materialov; bibliograficheskii ukazateli. 1955-1959. Moskva. 1960. 68 p. (MIRA 13:11)

1. Akademiya nauk SSSR. TSentral'naya nauchno-issledovatel'skaya laboratoriya elektricheskoy obrabotki materialov. 2. Nauchno-tekhnicheskaya biblioteka TSentral'noy nauchno-issledovatel'skoy laboratorii elektricheskoy obrabotki materialov AN SSSR (for Glinkina).

(Bibliography -- Electric metal cutting)

4.77. 1, A. 1.

Veterinary Medicine

Work of t'e Moscow Veterinary Academy. Veterinariia 29 no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

AUTHOR: Leproskiy, V.V., Kapustin, E.A., Glinkov, G.M. and Slepkanev, P.N. 133-5-6/27

TITE: On the comparison of tilting and fixed open hearth furnaces. (O aravnenii kachayushchikhsya i statsionarnykh martenovskikh pechey.)

Parlodical: "Stal!" (Steel), 1957, No. 5, pp. 411-415 (U.S.S.R.)

ABSTRACT: This paper is a comment on the paper by K.G. Trubin, "Stal'", 1956, No.9. The above subject is discussed in the light of the results of operating 250 ton tilting furnaces on the Azovstal' Works. For comparison with fixed furnaces the results obtained on the Zaporozhstal' Works are quoted. After indicating that the bottoms of tilting furnaces require more maintenance the authors compare the productivity of both types of furnaces. The dependence of the output per hour on the bottom surface (Fig. 1) and on furnace capacity (Fig. 2) indicates that for furnaces of the same bottom area and the same capacity the productivity of fixed furnaces is better. Thermal efficiency of tilting and fixed farmedes is compared on the basis of heat losses and the extent of preheating of gas and air (Fig. 3). The stability of roof refractories in tilting furnaces is lower than in fixed ones; Azovetal' - 29 kg/ton of steel while on the Makeyevsk dorks - 20 kg/ton. It Card 1/2 is concluded that technical-economical indices of tilting

On the comparison of tilting and fixed open hearth farm also. (Cont.) 133-5-6/27

furnaces are somewhat lower than those of fixed ones. A comparatively flexible slag operation of tilting furnaces is acknowledged, however, the removal of the first slag starts in the period of the maximum activity of the bath, when the composition of slag has not reached an optimum. In this respect the operation is similar to one on fixed furnaces. There are 3 figures and 5 references, 4 of which are Slavic.

ASSOCIATION: Azovstal' Works and Endanovsk Reballurgical Institute. (Eavol Azovstal' i Endanovskiy Retallurgialeskiy

Institut.)

AVATLABIE:

Card 2/2

SOV/137-58-9-18607 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 63 (USSR)

AUTHOR: Glinkov, G.M.

TITLE: The Heat Absorption of an Open-hearth-furnace Bath as a Basic

Parameter of the Control of its Thermal Performance (Teplopogloshcheniye vanny martenovskoy pechi kak osnova reguliro-

vaniya teplovoy raboty)

ABSTRACT: Bibliographic entry on the author's dissertation for the de-

gree of Candidate of Technical Sciences, presented to the Mosk, in-t stali (Moscow Institute of Steel Industry), Moscow,

1958

ASSOCIATION: Mosk, in-t stall (Moscow Institute of Steel Industry), Moscow

1. Furnaces -- Performance 2. Materials -- Thermothemistry

Card 1/1

SOV/137-58 9 18569

Translation from: Referativnyy zhurnal, Metallurgiya, 1958. Nr 9 p5ofUSSR)

Kapustin, Ye. A., Makovskiy, V. A., Glinkov Gandhard AUTHORS:

The Role of Oxygen-enriched Flame in Oxidation Processes of TITLE:

Open hearth Smelting (Rol' obogashchennogo kislorodom fakela

v okisliteľ nykh protsessakh martenovskov plavší)

PERIODICAL: Iz., vyssh, uchebn zavedeniy. Chernaya metallurgiva.

1958, Nr J, pp 84-93

An experimental campaign carried out in a 370 ton open ABSTRACT:

hearth furnace of the "Azovstal" plant has shown that increased consumption of  $O_2$  in the flame increases the oxidation capacity of the furnace, the oxidation capacity being defined as the passage of O2 into the molten metal per unit of time. It was noted that the boundary of the visible brightly luminuous flame is sharply reduced when  $O_2$  is introduced. Thus, at an  $O_2$  consumption of 2500 m  $^3/hr$  the length of the flame is reduced to one-half of the length of the hearth Gas samples taken along the length of the hearth revealed that

uncombusted components (CO, H<sub>2</sub>) are found only within the boundaries of the visible flame. At high rates of fuel

Card 1/2

SOV/137-58 9 18569

The Role of Oxygen enriched Flame (cont.)

combustion and during trequent reversals (8-12 minutes), smalter quantities of combustible constituents are found in the central section of the furnace and it is for this reason that the gaseous phase attains its maximum oxidizing capacity in this area. The tlame exhibits a maximum temperature near the first charge opening and a minimum temperature in the licinity of the fifth opening (the temperature drop may be as great as 150-250°C). Analyses of the slag have indicated that the greatest content of Fe in the slag is found in the center of the furnace. In the licinity of the nozzles, where conditions are tavorable for the passing of Fe into the slag; this conclusion was fully substantiated by experiment. The thermal balance of the smelling process is very favorably affected when a portion of the oxygen of the one or of the colder is replaced by atmospheric oxygen. Thus, every ton of O2 absorbed from the furnace atmosphere reduces the amount of heat required for preheating and fusion by approximately 5 million keal.

1. Open hearth furnaces - Performance 2. Fuels -- Combustion

3. Oxygen - Ferformance 4. Ning - Analysis

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Card 2/2

ACTIONS: Gliminy, G.M., Hopustin, Ye.A., and Horsvering, v.A.

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The Temperature of the Combaction Products at head the first the Working Space of a Militian Commission France

ASSOCIATION: Zinfanovskig a sallum icloseff I abit that Savod "Anovatal" (Zinfanov Institut) head I consist and "Anovatal" White)

AVAITABLE: Library of Congress

Card 2/2

AUTHOR:

C111.07, C. M.

133-58-4-33/40

TITLE:

Control of Heating Conditions by Maintaining the Maximum Heat Absorption of an Open Hearth Bath (Regulirovaniye

teplevoje reshim : peddensheniyen maksimal'nogo

to lope lechelenine orthography vana)

PERIODICAL: Stol', 1950, Nr 4, or 370-376 (USUE)

AESTRACT: The possibility of state actic and simple determination of the value of the specific absorption of heat by the bath and the coefficient of useful action of an open hearth furnace was investigated. In order to utilise

the value of heat absorption by the bath in order to control the thornal operation of an open hearth funct, it was necessary to device a rapid method of details. determination of the mean heat absorption of the bath at frequent but short time intervals. A method of

instintaneous reciprocal hear balance developed by VKITHE (Ref.7) was tried. Specific hear consumption of the bath (cal/m² hr) is calculated from a general formula:

 $Q_{x} + Q_{y} + Q_{00} - Q_{yx} - Q_{100}$ 

Card 1/4

133-58-4-33/40 Control of Heatin: Conditions by Mainteining the Maximum Heat Absorption of an Open Fearth bath where  $\boldsymbol{Q}_{\boldsymbol{x}}$  - chemical hant of fuel; 2, - physical he t of fuel and sir;  ${\bf Q}_{\rm CO}^{-}$  heat of combustion of CO from the bath;  $\mathcal{Q}_{vx}^{-}$  heat leaving the working space with waste gas; q<sub>los</sub> - losses of idling; 72 - surface area of the bottom, n<sup>2</sup>. In order so find out the nature of changes of heat absorption in the course of the heat and its dependence on various factors 15 experimental heats were carried out on a 350 ton tilting furnace (Azovstal' Works) with a magnetite chromity roof operating with a high phosphorus pig (P 1.4-1.7%) with 72-7% of hot iron in the charge. In order to determine the heat absorption by the bath by the method of instantaneous heat balance, the followin, measurements were carried out: a) temperature of proheat of air using a suction thermocouple in the vertical flue on : level 1 a above the Card 2/4

Control of Heating Conditions by Maintaining the Maximum Heat Absorption of an Open hearth Bath

platform, every 15-20 min; b) temperature of gas preheat with a suction thermocouple; c) besperature of maste gas. The latter was measured every 15-20 min in the air vertical flue in the same place where the air temperature was measured. A thermocouple was introduced 40-50 cm deep for 30-40 sec. The indications of this therapcouple were tested with a suction theraccouple and found to be satisfactory. Using the above three temperatures and indication of instruments on the consumption of fuel and air, the specific heat absorption and the coefficient of useful action were calculated for each heat. The experimental heats were done under various thereal and oxiden conditions. The results are shown in Fig.1 and the Table (for two heats). A comparison of heat balances of tained from the heat abcorption carve and calculated for the whole heat indicated that the againet of instantaneous heat bulences is about 10%. The dependence of heat absorption: on thermal load - Fig., on the rate of charging of Card 3/4 granular materials (Fig. 3A) and on the thermal load

Control of Heating Conditions by Maintaining the Paximum Heat Absorption of an Open Hearth Path

during melting - Fig. 38, on the velocity of decerturisation - Fig. 4. It was established that the air and waste gas temperature can be determined from measurements of the temperature of the internal surface of the wall of the vertical flue with a radiation pyrometer (Figs. 5,6). It is pointed out that it would be advantageous to decign a scheme for a complete automatic control for open hearth furnaces, using as the main controlling persenter the specific consumption of heat by the bath which completely defines the thermal operation of the furnace. The method described in the paper is suitable for instrumentation and thus can form a basis for developing an automatic control for open hearth furnaces. The work was carried out under the direction of I. G. Kazantsev, Professor, Doctor of Technical Science. There are 1 table, I figures and 8 references, 7 of which

,

1. Open hearth furnaces--jontrol systems

304/133-58-8-8/30

AUTHORS:

Kharitenov, A.S., Candidate of Tehnical Sciences, Docent, Buliskiy, M.T., Alimov, A.G., Glinkov, G.E. and Beleglovskiy, M.Sh., Engineers

TITLE:

Optimum Temperature Conditions for Smelting Rimming Steel from Phosphorus Pig Iron (Optimal'nyy temperaturnyy rezhin

vyplavki kipyashchey svali iz fosforistogo chuguna)

PERIODICAL: Stal', 1958, Nr 8, pp 706 - 709 (USSR)

ABSTRACT: An outline of the smeltin profile of nimeing steels used in the Azovstal' Works is given. On the basis of an analysis of the teaper ture data during the refining possion of a large number of heats, the optimum metal temperature at the beginning of boiling and before deoxidation was established in order to obtain steel with a low consumption coefficient. The influence of the charging rate of additions during the refining period on the velocity of heating of metal - rigure 1; the influence of the metal temperature at the beginning of pure boiling on the number of ladles of metal of low and high consumption coefficients - Figure 2; the influence of metal temperature before desxidation on the number of ladles of metal of high and low consumption coefficients - Figure 3;

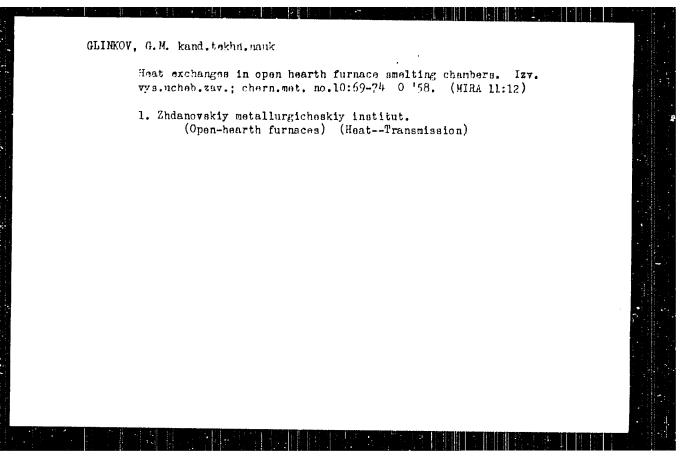
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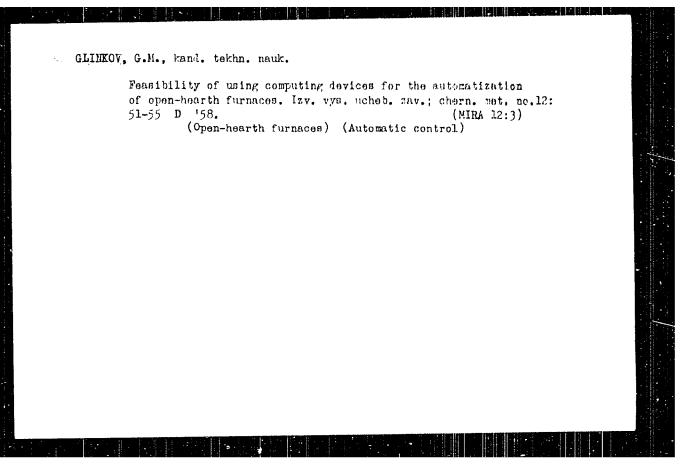
Optimum Temperature Conditions for Justile Minning Steel from Phosphorus Pig Iron

the influence of the [76]: [C] ratio in the finished risking steels on the marked coefficient of metal - Figures + and 5 (A): A readily distribution of the number of ladles of steel with different [Mn]: [C] ratios - Figure 5 (B). It was also established that it is advantageous to produce risk in steel with the manganese content in the ladle sample on moto the later limit permitted by standards and that the ratio of [Mn] [C] in the finished steel should not exceed 2.7 for steels StO, 1 and 2kp and 2.5 for steel St3kp. There are 5 figures and 3 Soviet references.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and Zavod "Azovstal" ("Azovstal" Works)

Gard 2/2 - Fixed--Production - 2 Steel--Semperature Passors





SOV/137 58 11 13082

Translation from: Referativnyy zhurnal Metallurgiya 1958, Nr 11 p 36 /USSR)

AUTHOR: Glinkov, G M.

TITLE: Heat Absorption in the Bath of an Open hearth Furnace During a Heat

as the Basis for Regulation of Thermal Conditions (Teplopoglo-shcheniye vanny martenovskoy pech; po khodu platki kak osnova

dlya regulirovaniya teplovov raboty)

PERIODICAL: Sb. Mosk, in t stall 1958, Vol 38 pp 112 134

ABSTRACT: Change in heat absorption (H) of the bath was determined for the

courses of 15 experimental heats in 350 trilling open hearth turnaces at the Azovstali plant equipped with chemically bonded magnesite chrome roofs two level checker ports heated by a mixture of coke and blast-furnace gases, and burning in an oxygen enriched blow. The method of measurement is described. Comparisons showed that the difference between the quantity of heat received by the bath and calculated on the total heat balance, and the same quantity of heat calculated by the method of inverse heat balance for one heat was 2 and for another 10.5 million has been entitled.

and for another 10.5 million keal, constituting altogether 2.8 and

Card 1/3 13.5% of the total heat output. The amount of H varies highly in the

SOV 137 58 11 20131 Heat Absorption in the Bath of an Open hearth Furnace During a Heat (con. )

course of a heat. Ranging from an average of 150 180,000 kcal min hr during the charging period (180-220,000 during charging of iron scrap and blooms), on 85 000 at the end of the meltdown period, 100 140,000 at the star of the melting period, 60-80,000 at the end of the melting period and fluctuating in the range of 42 70 000 during the finishing period. During charging melting down and melting, H rises with increase in O2 consumption. The average for two groups of heats showed that when O2 delivery was increased from 1500 to 2500 m /ar H rose from 153 to 186,000 kcal/m<sup>3</sup> hr during the charging period, from 118 to 149,000 kcal/m<sup>3</sup> hr during the meltdown period. Horises with increases in thermal load, the rise being the greater during the charging period the greater is the O, input. At dentical thermal conditions, H during the period of charging of tree flowing materials rises with the rate of charging. No such relationship was observed during the period of charging the metallic portion of the charge. The charge in the efficiency of the furnace during the heat (an analogous change in H) is as follows: Charging 33 1 37 000, meltdown 28.0-31 4%, melting 18 4 20 0% and tinishing 12 8% Since he change in the H and the efficiency of the furnace during the heat provide a complete description of the thermal functioning of the furnace, the utilization of the Hoot the bath or the efficiency of the furnace as input control impulses permits the development of new designs for automatic regulation of the thermal regimes of turnaces furlizing Card 2/3

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Heat Absorption in the Bath of an Open hearth Farnace During a	: Heat (cont.)	10.5.	
computers), thereby permitting a pronounced in ansitication in of the furnace.	the hermal fo	nct cring	
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507/148-59-1-9/19 18(5)

Kapustin, Ye.A., Glinkov, G.M., Candidates of Technical Scien-AUTHORS:

ces and Kaluzhskiy, Ye.A., Engineer

Raising the Productivity and Economy of Open Hearth Furnace by TITLE:

Improving the Thermal Process (Povysheniye proizvoditel'nosti i ekonomichnosti martenovskoy pechi za schet usovershenstvo-

vaniya teplovogo rezhima)

Izvestiya vysshikh uchebnykh zavedeniy - Chernayn metallurgiya, PERIODICAL:

1959, Nr 1, pp 83-89 (USSR)

Experiments were carried out for the purpose of developing an improved heat process in open hearth furnaces, whereby optimum ABSTRACT:

correlation of blast air and mazut consumption during the smelt were determined. The following personalities participated in the work: A.A. Goshchanskiy, V.I. Doroknov, V.P. Yevtyukhov, D.P. Zabrodkin, V.F. Kalinkin, A.Ye. Prikhozhenko, V.D. Rudman, A.A. Rykhlikova, N.G. Stepin, I.S. Chernyshev. It was stated that the determination of the blast expense depended on the com-

ponents of air balance such as: air expense for fuel burning, oxidation of the pool, burning-out of CO, as well as loss of

air caused by leakages and air intake from the external space, Card 1/2

507/148-59-1-9/19

Raising the Productivity and Economy of Open Hear h Furnace by  ${\tt Improving}$  the Thermal Process

Air intake and loss depended on the pressure in the smelting space. For the case that optimum pressure under the smelting space coupola could not be maintained, the blast expense must be adjusted accordingly. The developed thermal process regulates the thermal load depending on the charge material (loose or scrap); the quality of the scrap; duration of initial heating and idle time; and the smelting intensity. The new method reduced the smelting time by 6.4% and the specific fuel expense by 8.3%. The author presents graphs where the mazut expense is plotted versus the smelting time; the quantity of beads and the Fe-content in the slag; etc.

There are 8 graphs and 6 Soviet references.

ASSOCIATION:

Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical

Institute)

SUBMITTED:

October 1, 1958

Card 2/2

SOV/133~59.6~37/41

AUTHORS: Glinkov, N.A., Doctor of Technical Sciences and

Glinkov, G.M., Candidate of Technical Sciences

TITLE: Some Thermotechnical Problems of large Capacity Open

Hearth Furnaces (Nekotoryye voprosy teplotekhniki

bol'shegruznykh martenovskikh pechey)

PERIODICAL: Stal', 1959, Nr o. pp 568-572 (USSR)

ABSTRACT: Possibilities of increasing the productivity of open

hearth furnaces per unit of their calacity is discussed. It is considered that the higher the furnace capacity, the higher the quality of the solid

charge should be. This would permit retaining the level of irradiation factor on decreasing of the ratio of the surface area of the bath to the furnace capacity (S/T). The higher the furnace capacity the higher the quality of the liquid iron or semiproduct should be as an increase in the thickness of the slag layer unavoidably deteriorates conditions of heat

transfer. Sufficiently advantageous heat exchange conditions inside the solid charge and liquid bath can

Card 1/4 be obtained on retaining S/T constant with increasing

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SOV/133-59-6-37/41

Some Thermotechnical Problems of Large Capacity Open Hearth Furnaces

furnace capacity. In order to obtain this a different type of steelmaking furnace is necessary with a working space of to 10 - 12 m wide, hanging roof and two-sided charging (with a corresponding change in the distribution of equipment in the shop). The higher is the laying down property of the flame and its luminosity at the end of the smelting space the lower is non-uniformity in the heat exchange along the length of the furnace. Therefore on increasing the capacity of the furnaces, it is necessary to increase correspondingly the velocity of the fuel stream in order to obtain the required Laying down capacity of the flame. In order to improve the flame luminosity at the end of the smalting space, it is necessary to use as a fuel or a carourising agent, heavy liquid fuels with a large ratio of C/H, on the decomposition of which complex hydrocardon complexes are formed, securing stable luminosity of the flame.

Card 2/4

56V/133-59-6-37/91

Some Thermotechnical Problems of Large Capacity Open Hearth Furnaces

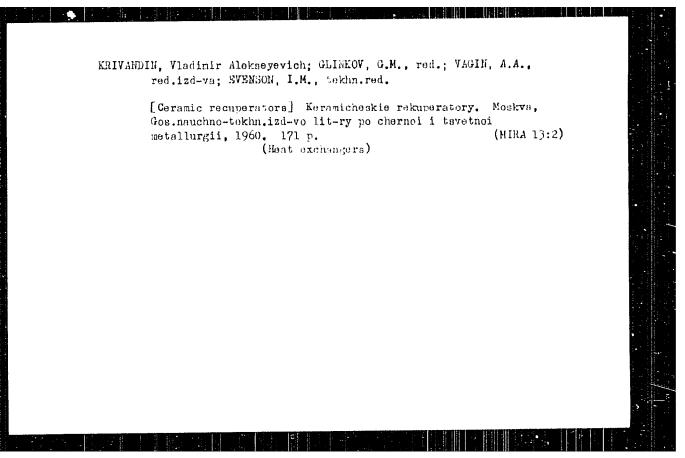
A truly uniform heating of the oaths of large furnaces can be obtained with a two-sided supply of fuel into the working space i.e. with simultaneous operation of two dog houses. On transferring an open hearth furnace on firing with oil or a cold gas of a high caloratic value this problem can be solved easily by using three-channel dog houses (Fig 5). In each dog house either two side-channels or one central channel operates alternatively. The remaining three channels serve as waste was flues to pass the waste gas to the regenerators - simultaneously through both dog houses. The movement of the gas in the working space will be mixed (counter-current and recirculation). As each dog house supplies through tuyeres the same amount of fuel, the heating conditions of both halves of the working space should be the same. All four regenerators are preheating air, the reversing system will be little changed. The separation of slag in slag pockets will be facilitated as one to the peculiar

Card 3/4

Some Thermotechnical Problems of Large Capacity Open Hearth
Furnaces

feature of the gas movement in the working space
the carry over of the slay decreases. There are
5 figures and 9 Soviet references.

Card 4/4



LEPORSKIY, Vladimir Vladimirovich; KAFUSTIN, Yevgeniy Aleksandrovich; GLINKOV, German Markovich; MAKOVSKIY, Vitaliy Anatol'yevich; LEBEDEV, A.I., red.; LANOVSKAYA, M.R., red. ind-va; DOBUZEIN-SKAYA, L.V., tekhn.red.

[Tilting open-hearth furnaces; design and heat transfer] Kachaiushchaiasia martenovakaia pech'; konstruktsiia i teplovaie
rabeta. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i
tavetnoi metallurgii, 1961. 181 p. (MIRA 14:5)

(Open-hearth furnaces-Design and construction)

(Heat-Transmission)

GLINKOV, G.M.; FALOSHIN, N.A.; KAFUSTIN, YO.A.; KARFOV, O.D.; RUDMAN, V.D.; KHIISH, L.I.

Results of modeling open-hearth furnaces fired by cold high-calorie gas and hot mixed gas. Izv. vys. uchet. zav.; chern. met. no.2: 138-147 '61. (MIRA 14:11)

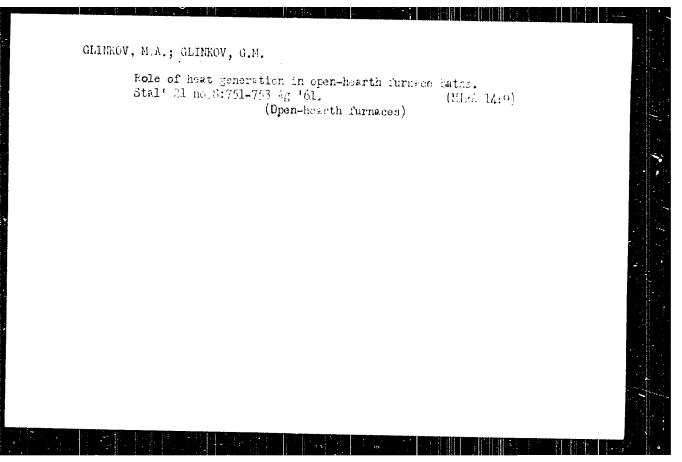
1. Zhdanovskiy metallurgicheskiy institut.
(Open-hearth furnaces--Models)
(Gas flow--Models)

GLINKOV, M.A., doktor tekhn.nauk,prof.; GLINKOV, G.M., kand.tekhn.nauk

Response to A. D. Kliuchnikov's remarks. Stal' 21 no.6:566 Je '61.

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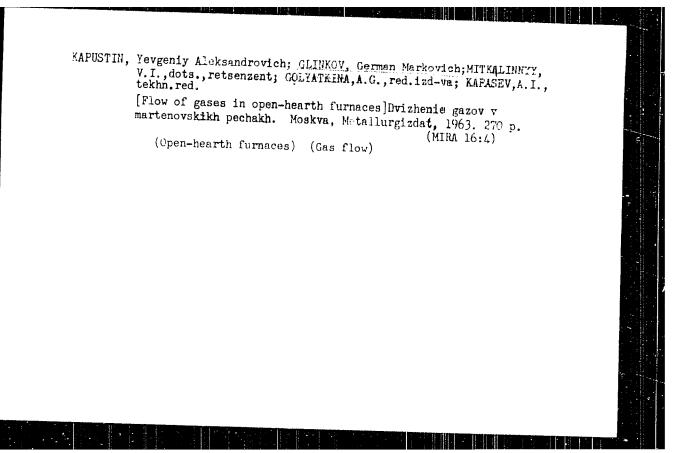
(Open-hearth furnaces-Design and construction)



LEPORSKIY, V.V.; SLEPKAMEV, P.N.; ARKHARGEL'SKIY, Yu.N.; FUTCH'SKAM, G.A.; CLINKOV, G.M.; KAPUSTIN, Ye.A.; KALOSHIN, E.A.; KRIVERKO, P.T.

Uperation of large tilting open-hearth furnaces with natural gas. Stal' 21 no.10:083-889 0 '61. (MIRA 14:10)

1. Zavod "Azovstal'" i Zhdamvskiy metallurgheheskiy institut. (Open-hearth furnaces)



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85

PHASE I BOOK EXPLOITATION

SOV /5556

Moscov. Institut stali.

. - 1. 1.

Novoge v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Mosecv, Metallurgizdat, 1961. 459 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshebaniya) 2,150 copies printed.

Sponsoring Agency: Ministeratvo vysahego i arednego spetsial'nego obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondukev, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Cancidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPUSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

Card 1/14

85 SOV / 5556 New [Developments] in the Theory (Cont.) COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its sutomation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamter; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, R.P. Nam, V.I. Yavoyakiy, G.N. Oyks and Ye. V. Chelishchev (Moscov Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylete (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute); Card 2/14

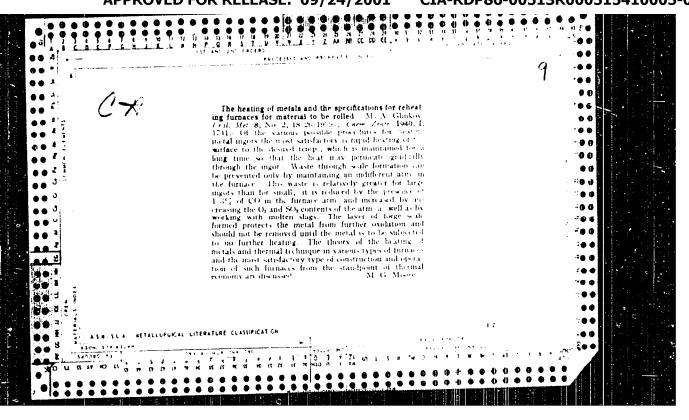
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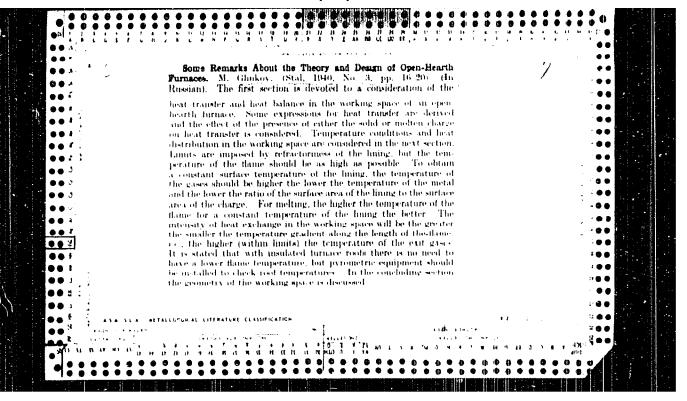
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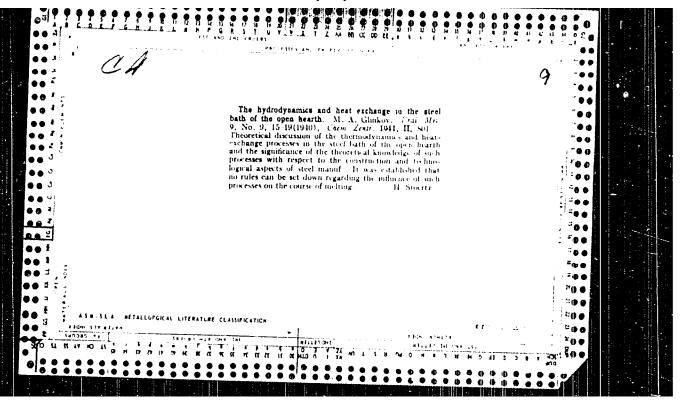
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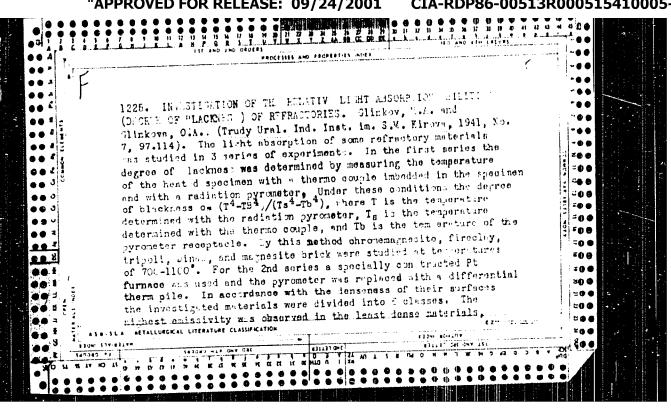
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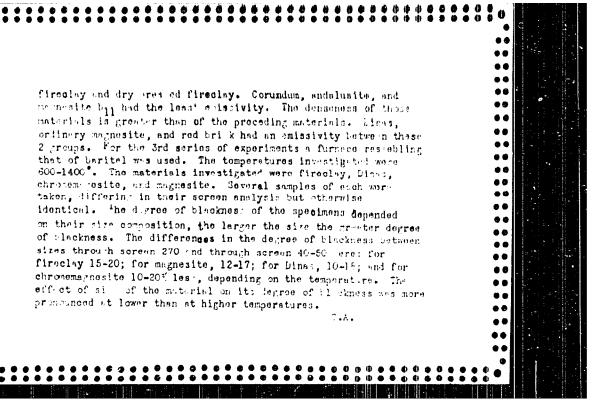
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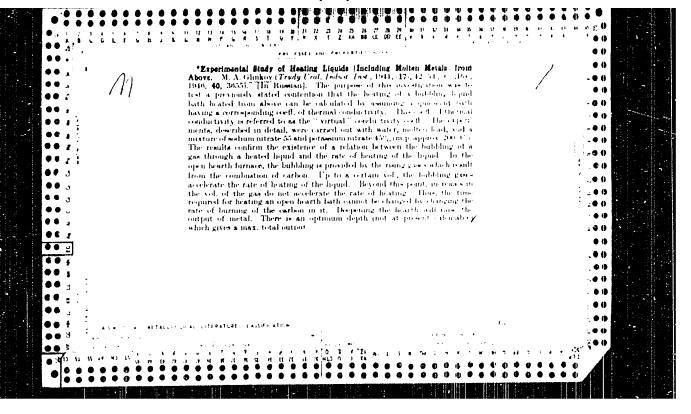


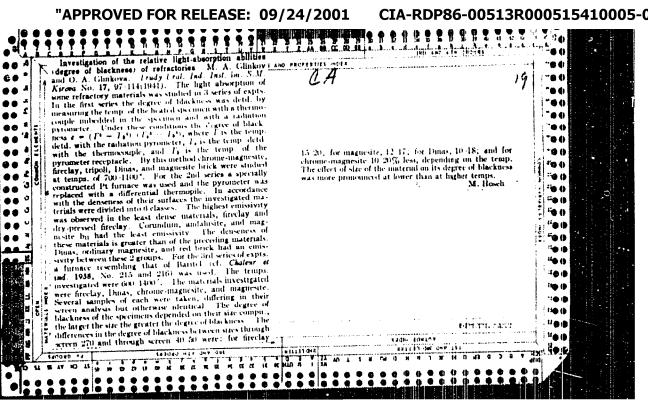


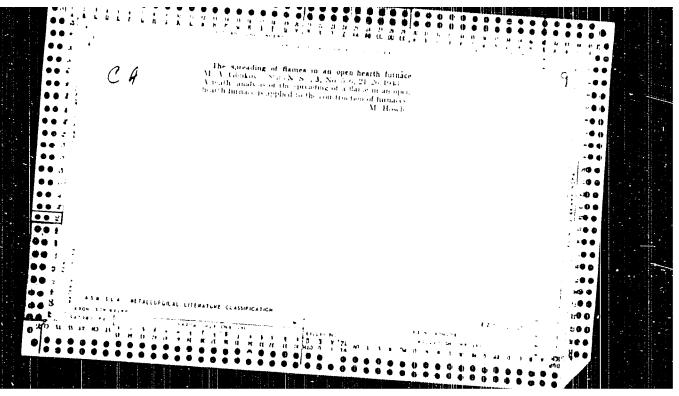


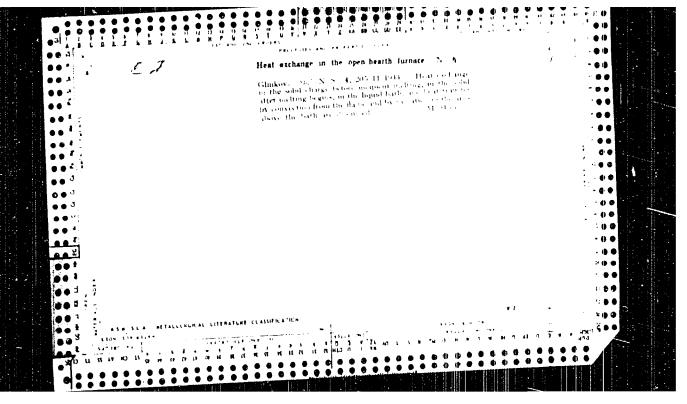


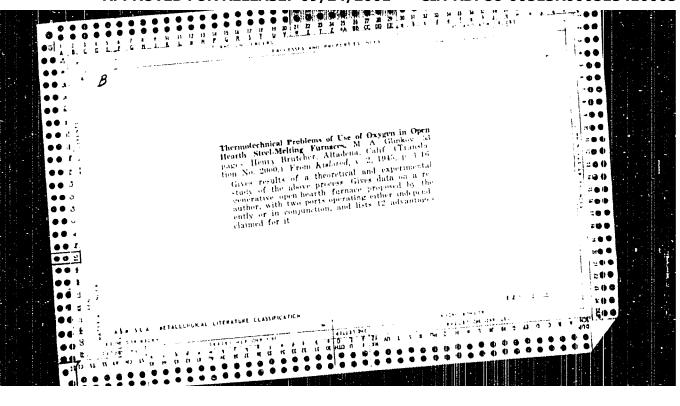


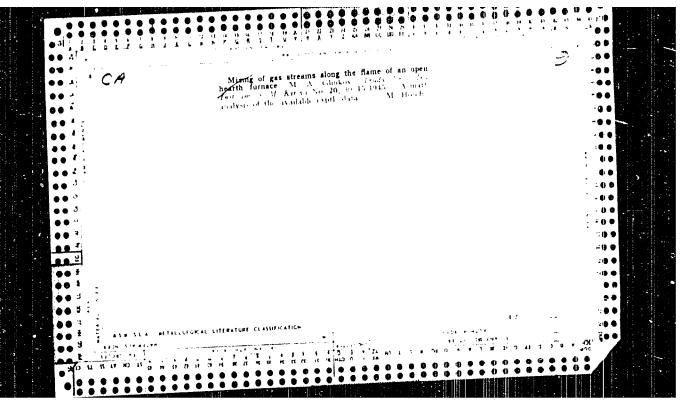


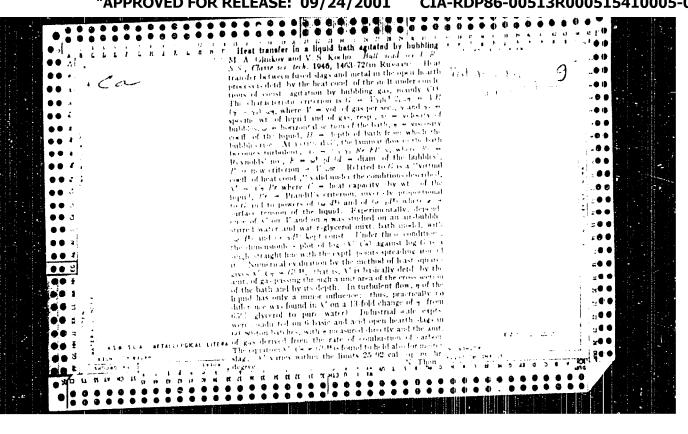


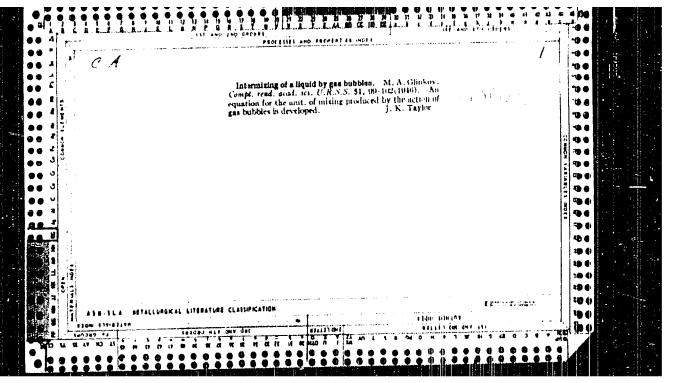


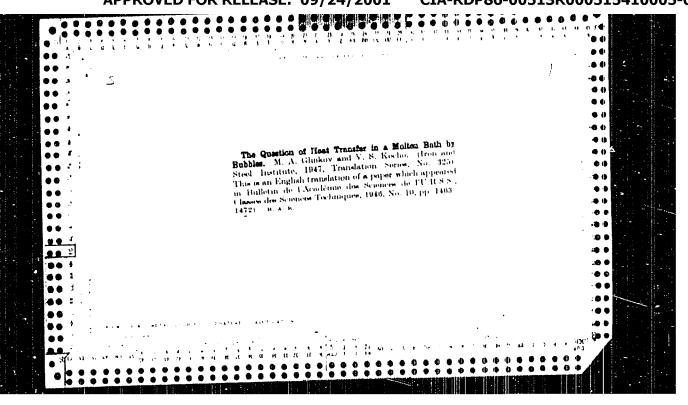


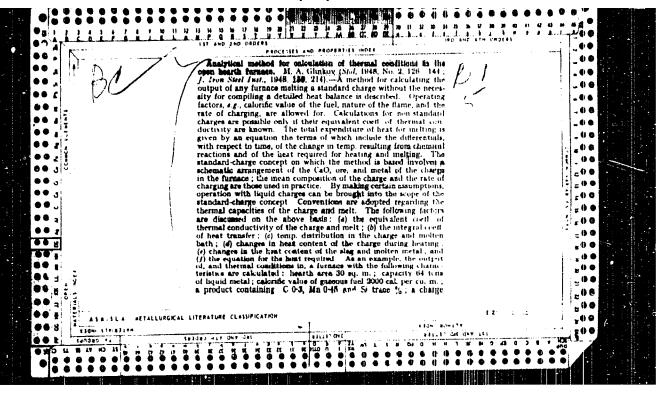


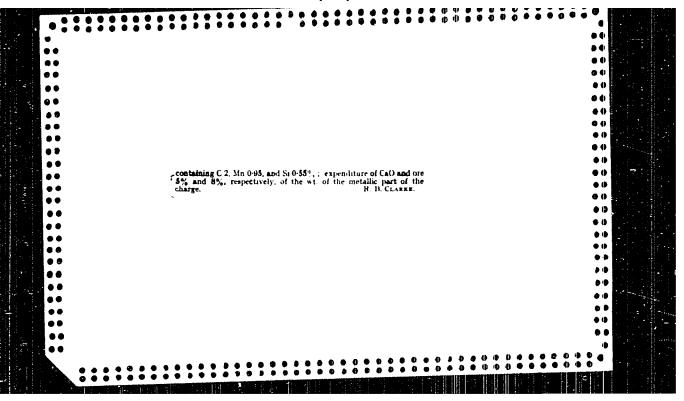


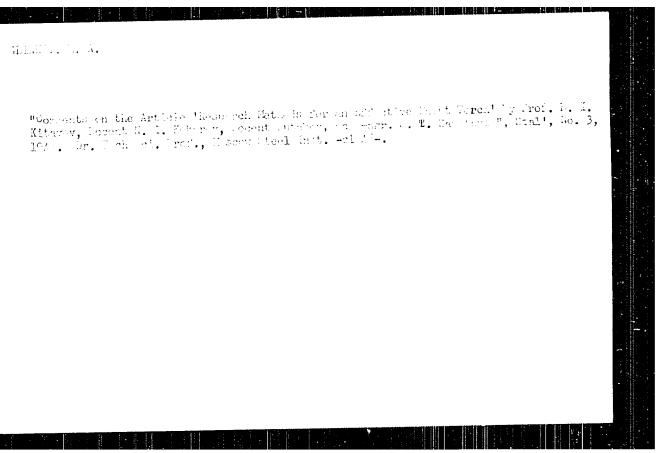


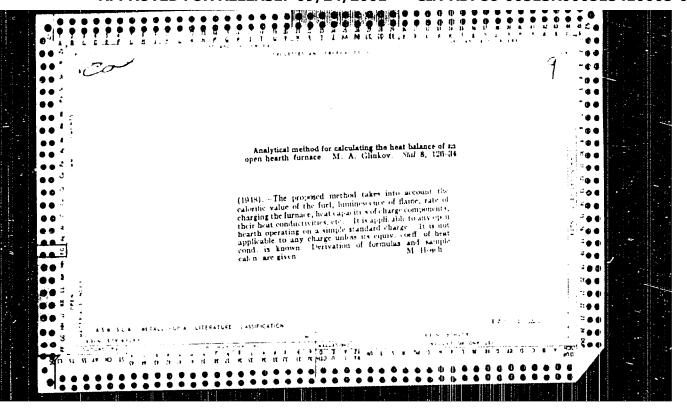


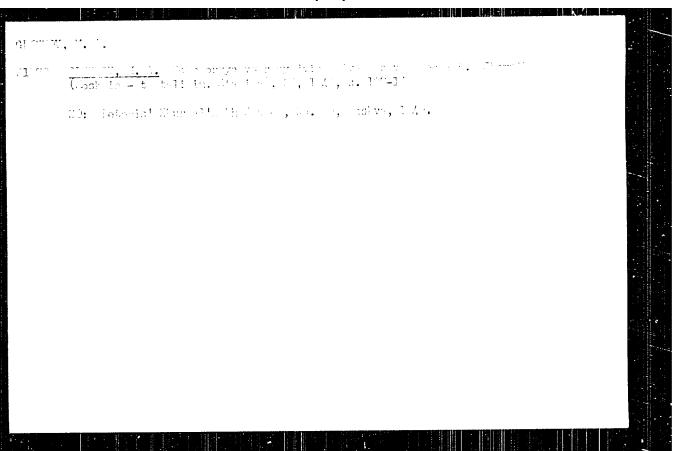




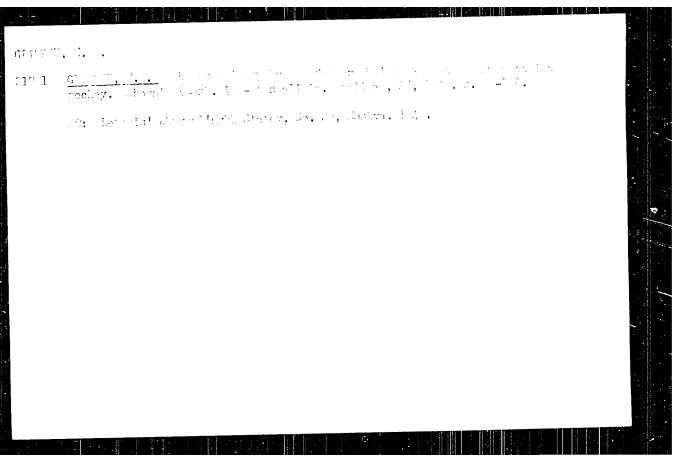


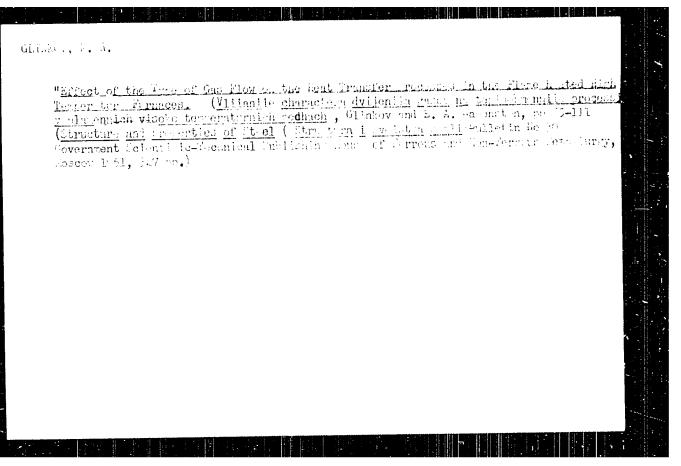






Glinkov, E. A., and Glinkova, O. A. INTINTIANNA OF THE NEW TWE LIGHT-AND REFINE GLICKOV E. A. ARIBITIES (DESERTE OF STARKINGS) OF REFEASE REED. Testy Seed. Int. Inct. in. J. E. Kirova, No. 37, 97-116 (1969). -- The Hills consequence of some refresh entered during studied in a cried of experiments. In the first series the terree of hocker and determined by mecoparing the temperature of the houte, specified with a thermocomple inhersel in the specimen and with a radiation pyrometer. Unser the resolutions the degree of blackness  $e = \sqrt{t^{t_1} - \frac{m_1 t_1}{n}} / (\frac{t_1 t_2 t_3}{n})$ , where T is the temperature setermined with the reliction pyrometer, To is the temperature lettrained with the thermocounte, and To is the top-grature of the pyrometer reservate. By this method shrome-ma mesite, fire clay, triveli, Diras, and magnesite brick were studied at temperatures of 7000 to 11000. For the among series a concinity constructed by finace was used up the pyremeter was replaced with a differential tears mile. In asserbance with the densened of their currents the investimate unitarials were liviles into 6 classes. The mishert emissivity was appeared in the local lense stateming, fireday and trypreside fire clay. For miss., a dalusite, and capmente on and the last emissivity. The denseness of these materials is greater than that of the preceiling materials. Dinas, ordinary sampoite, onlost prick and an emissivit. Abreed these ? groups. For the 3rt series of experiments a furnace race bling that of Worldel (of Smaleur et inl., 1938, Mos. 215 and 216) was made. The termerature invertigated were  $\delta$  (2) to 14000. The muterials investigated were fire clay, Dimes, corone-magnesite, and margedite. Several samples of each were takes, difference in the blackmess of the specimens deserving on their size communition, the larger the size the greater the degree of blackness. The lifterenses in the legree of alasses setween sizes through screen 270 and through screen 25 to 50 were: for fire tow 15 to 20; for magnesite, 12 to 17; for Jimes, 15 to 18; and for our se-magnesite 10 to 25% less, lepending on the temperature. The effect of the of the exterial at its serve of plackness was (over)





- H-17 / 171111. PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 601 - I .⊹ B00K Call No.: AF428232 Authors: GLINKOV, M. A., Dr. of Tech. Sci., Prof., et. al. Full Title: METALLURGICAL FURNACES Transliterated Title: Metallurgicheskiye pechi PUBLISHING DATA Originating Agency: None Publishing House: State Scientific and Technical Publishing House of Literature on Ferrous and Nonferrous Metallurgy (METALLURGIZDAT) te: 1951 No. pp.: 975 No. of copies: 8,000 Date: 1951 No. pp.: 975 No. of copies: 8,000 Editorial Staff: The Authors' Collective (Avtorskiy Kollektiv) with Glinkov, M. A., Dr. of Tech. Sci., Prof. as Editor-in-Chief. Collaborating members are: Baum, V. A., Budrin, D. V., Vashchenko, A. I., Glinkov, M. A., Granovskiy, B. L., Kitayev. B. I., Kuz'min, M. A., Mikhaylenko, A. Ya., Nazarov, I. S., Plotnikov, L. A., Semikin, I. D., Tayts, N. Yu. and Troyb, S. G. PURPOSE: To replace the several books used in the course at the metallurgical colleges (with one) comprehensive manual. Approved as a textbook by the Ministry of Higher Education of the USSR. TEXT DATA Coverage: Fuels and process of combustion are thoroughly analyzed. General principles for construction of metallurgical furnaces, various refractory and other construction materials are discussed. 1/2

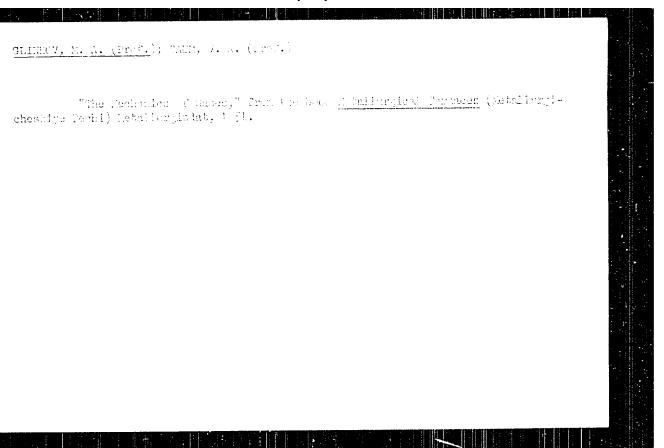
Metallurgicheskiye pechi

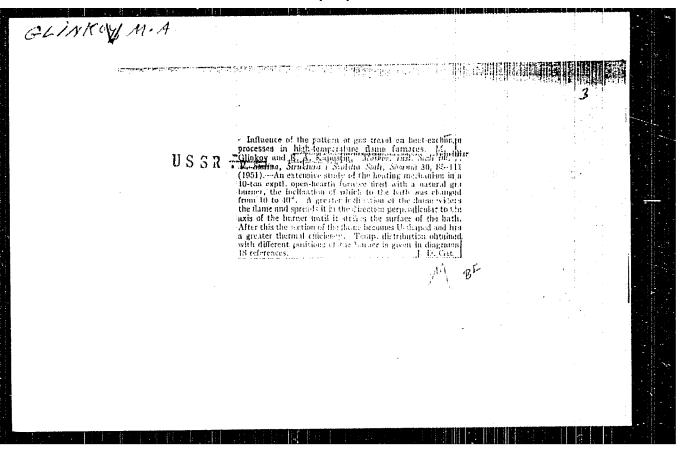
AID 601 - I

The basic principles of heat engineering, mechanics of gases, theory of analogies, transmission of heat, tempering, smelting and cooling of metals are treated in detail with elaborate mathematical formulae. The auxiliary equipment of the combustion chamber is minutely described and illustrated. Blast and open-hearth furnaces and the heat-treatment furnaces used in ferrous metallurgy, the shaft furnaces, reverberatory, tubular rotary and crucible furnaces used in nonferrous metallurgy, as well as electric resistance, induction and electric arc furnaces are described. (Electric furnaces in ferrous metallurgy and their control and automatic equipment are not given but will be discussed in a book to be published later). The book is abundantly illustrated with diagrams, mathematical formulae and charts. This book is compiled by collaboration. The 13 authors presented a chapter or division. Their manuscripts underwent a mutual evaluation, correction and critical discussion by the other members of the collective, and then were incorporated into the book.

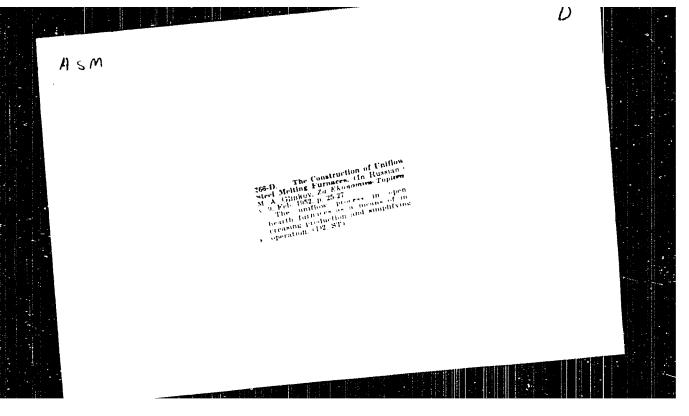
No. of References: 175 Russian, 1925-1950
Facilities: Moskva Institute of Steel; Ural Polytechnic Institute;
Dnepropetrovsk Metallurgical Institute; Moskva Institute of Nonferrous Metals and Gold; Leningrad Polytechnic Institute; Siberian Metallurgical Institute; and State Scientific Research Institute of Nonferrous Metals.

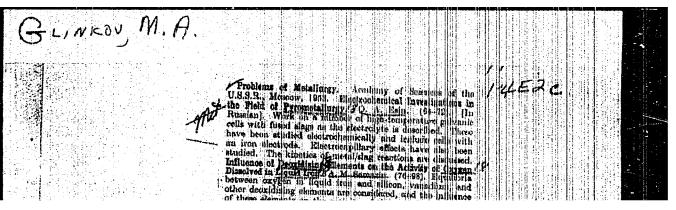
GLIEROV, E. A. (Prof.): Univers, I. d. proceeds FARM N. B. J. (Frof.)	
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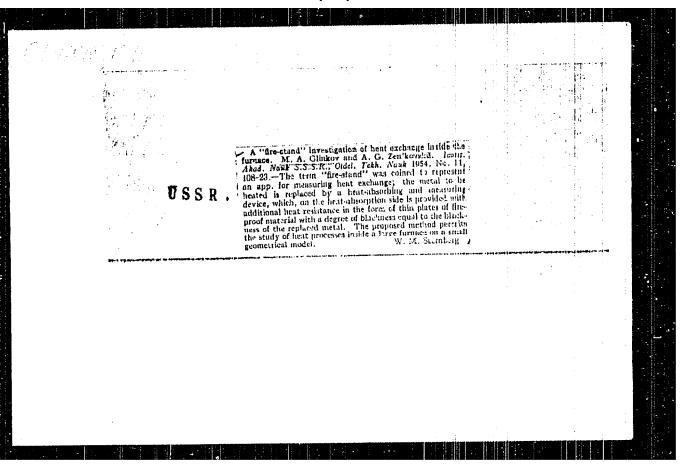


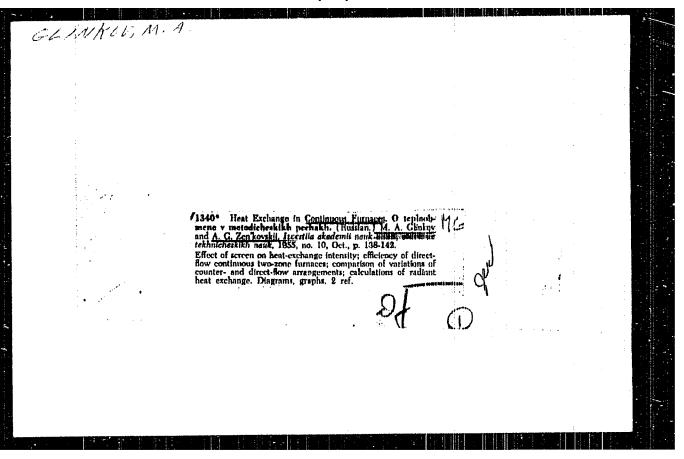


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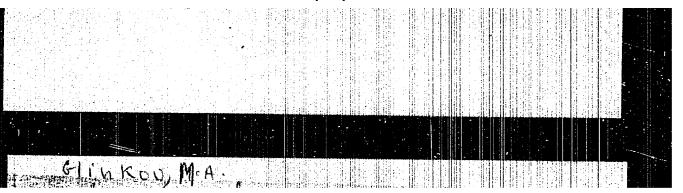


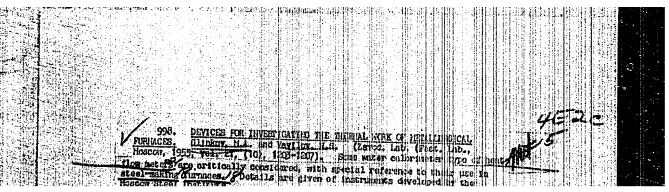
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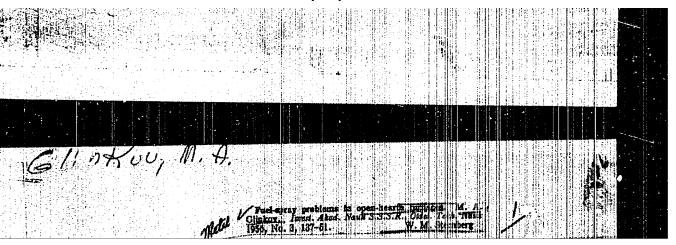
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